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## Patent Abstracts of Japan

PUBLICATION NUMBER : 10317119  
PUBLICATION DATE : 02-12-98

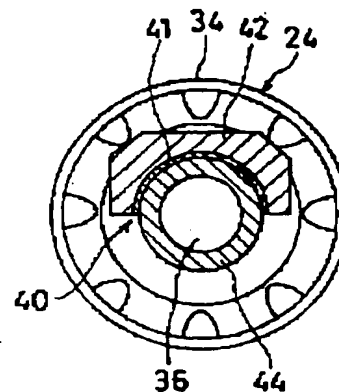
APPLICATION DATE : 21-05-97  
APPLICATION NUMBER : 09131048

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INVENTOR : DOI SHIGEKIMI;

INT.CL. : C23C 2/00 F16C 13/00 F16C 13/02

TITLE : ROLL FOR MOLTEN METAL, AND ITS PRODUCTION



ABSTRACT : PROBLEM TO BE SOLVED: To provide a roll for molten metal, capable of supporting a rotary shaft stably with relatively low rotational resistance and excellent in heat resistance and durability, and its production.

SOLUTION: A bearing 40 has a rotary shaft 36 and a bush 44 rotating with this rotary shaft 36. A bearing member 42, turnably holding the rotary shaft 36 and the bush 44, is provided with a glass ceramic layer 41 on the surface of the recessed groove in the bearing member 42. Moreover, a grooved part is formed in the thrust surface of the bush 44, by which the friction coefficient of the bearing 40 can be reduced. Therefore, the rotational resistance of the rotary shaft 36 can be relatively reduced and the rotation of the rotary shaft 36 can be made smooth. Further, the glass ceramic layer can withstand the thermal shock due to rapid temp. rise and fall during use and can improve the heat resistance and durability of the bearing 40. Therefore, the man-hour for the replacement of the bearing 40 can be reduced.

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